```
=> e furfural
E13
         1
             FURFURACEIC/BI
E14
         2
             FURFURACEUM/BI
        414 --> FURFURAL/BI
E15
E16
         4
             FURFURALACET/BI
             FURFURALACETO/BI
E17
             FURFURALACETONE/BI
E18
         3
             FURFURALACETOPHEN/BI
E19
         1
E20
         1
             FURFURALACETOPHENONE/BI
E21
         2
             FURFURALALD/BI
E22
         1
             FURFURALALDEHYDE/BI
E23
         2
             FURFURALALDOXIME/BI
E24
         1
             FURFURALCOHOL/BI
=> e lignin derrivatives
E25
         4
             LIGNIFERA/BI
E26
        732
             LIGNIN/BI
         0 --> LIGNIN DERRIVATIVES/BI
E27
E28
             LIGNINASE/BI
             LIGNINC/BI
E29
         1
E30
             LIGNINCOL/BI
         1
E31
             LIGNINCOLA/BI
E32
             LIGNINOL/BI
             LIGNINOLYTIC/BI
E33
         1
E34
         8
             LIGNINSULFON/BI
             LIGNINSULFONATE/BI
E35
         8
             LIGNINSULFONIC/BI
E36
L2
       414 FURFURAL/BI
        8 LIGNINSULFON/BI
L3
L2 ANSWER 1 OF 414 REGISTRY COPYRIGHT 2003 ACS on STN
RN 436861-60-8 REGISTRY
CN 2-Furancarboxaldehyde, polymer with formaldehyde, phenol, 2-propanone and
   1,3,5,7-tetraazatricyclo[3.3.1.13,7]decane (9CI) (CA INDEX NAME)
OTHER NAMES: CN Acetone-formaldehyde-furfural-hexamethylenetetramine-phenol copolymer
MF (C6 H12 N4 . C6 H6 O . C5 H4 O2 . C3 H6 O . C H2 O)x
CI PMS
PCT Amino resin, Phenolic resin, Polyother
SR CA
LC STN Files: CA, CAPLUS
CM 1, CRN 108-95-2, CMF C6 H6 O
CM 2, CRN 100-97-0, CMF C6 H12 N4
CM 3, CRN 98-01-1, CMF C5 H4 O2
CM 4, CRN 67-64-1, CMF C3 H6 O
CM 5, CRN 50-00-0, CMF C H2 O
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)
```

= > index bioscience

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, AQUASCI, BIOBUSINESS, BIOCOMMERCE, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CANCERLIT, CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPB, CROPU, DISSABS, DDFB, DDFU, DGENE, DRUGB, DRUGMONOG2, ...' ENTERED AT 14:58:45 ON 16 DEC 2003

- 2 FILE AGRICOLA
- 1 FILE BIOBUSINESS
- 7 FILE BIOSIS
- 1 FILE BIOTECHNO
- 7 FILE CABA
- 7 FILE CAPLUS
- 3 FILE CEABA-VTB

```
1 FILE DISSABS
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- 2 FILE EMBASE
- 1 FILE ESBIOBASE

35 FILES SEARCHED...

- 1 FILE FSTA
- 1 FILE MEDLINE
- 2 FILE PASCAL
- 1 FILE SCISEARCH
- **3 FILE TOXCENTER**
- 1 FILE USPATFULL
- 4 FILE WPIDS
- 4 FILE WPINDEX

L4 QUE L1 AND L2 18 FILES HAVE ONE OR MORE ANSWERS

- L5 QUE (WOOD OR BIOMASS) (5N) HYDROLYSATE, 40 FILES HAVE ONE OR MORE ANSWERS
- L6 QUE (REMOV? (5N) (LIGNIN (5N) DERRIVATIV?)) O FILES HAVE ONE OR MORE
- L7 QUE (REMOV? (5N) (FURFURAL OR LIGNIN COMPOUNDS)) (5N) (WOOD HYDROLYSATE)

ANSWERS OF ILES HAVE ONE OR MORE ANSWERS

L8 QUE (REMOV? AND (FURFURAL OR LIGNIN COMPOUNDS)) AND (WOOD HYDROLYSATE) 8 FILES HAVE ONE OR MORE ANSWERS

L9 QUE YEAST CULTURE AND L8 2 FILES HAVE ONE OR MORE ANSWERS = > d rank

F1 1 WPIDS

F2 1 WPINDEX

=> L9

L10 1 YEAST CULTURE AND L8

L10 ANSWER 1 OF 1 WPIDS COPYRIGHT 2003 THOMSON DERWENT on STN

AN 1989-363056 [49] WPIDS

DNC C1989-161186

TI Prepn. of hydrolytic media for growing nutrient yeasts - involves reacting neutralised hydrolysate contg. specified amt. of reducing matter and salts with yeast culture having glycolytic activity.

DC B04 D16

IN BALASHEVIC, I I; POLYAK, Y U M; SIZOV, A I

PA (GIDR-R) GIDROLIZPROM RES CO

CYC 1

PI SU 1463755 A 19890307 (198949)* 3p

ADT SU 1463755 A SU 1986-4166750 19861224

PRAISU 1986-4166750 19861224

AN 1989-363056 [49] WPIDS

AB SU 1463755 A UPAB: 19930923

A wood hydrolysate contg. 4-6% reducing substances is neutralised with milk of lime and aq. ammonia soln. to pH 4.4. The compsn. is then enriched with nutrient salts and cooled. Suspended matter is then removed by allowing it to settle or by filtration, and the obtd. nutrient compsn. is supplied to a reactor and reacted with yeast cultures possessing glycolytic activity until the content of reducing substances is reduced by 5-15% w.r.t. the initial content. Suitable yeast cultures include Candida tropicalis 649 and Saccharomyces cerevisiae AB-1. Free or immobilised yeasts can be used. The reaction with glycolytically active yeasts transforms furfural contained in the hydrolysate, and which is a yeast growth inhibitor, to furfuryl alcohol. In addn., ethyl alcohol is formed. The latter is an additional source of carbon and, in small concns., is a yeast growth stimulator.

USE/ADVANTAGE - In the microbiological industry. Yeast yield can be increased by 4-18%. Bul.9/7.3.89

The Contents of Case 10031216us20040106

		DD 31		•	:
Qnum	Query (435/161) and @pd >	DB Name	Thesaurus	Operator	Plural
Q1	20030915	USPT	None	ADJ	YES
Q2	(435/163) and @pd > 20030915	USPT	None	ADJ	YES
Q3	(435/165) and @pd > 20030915	USPT	None	ADJ	YES
Q4	(435/162) and @pd > 20030915	USPT	None	ADJ	YES
Q5	(435/252.1) and @pd > 20030915	USPT	None	ADJ	YES
Q6	(435/255.1) and @pd > 20030915	USPT	None	ADJ	YES
Q7	(435/255.2) and @pd > 20030915	USPT	None	ADJ	YES
Q8	(435/255.21) and $@pd > 20030915$	USPT	None	ADJ	YES
Q9	(435/252.9) and @pd > 20030915	USPT	None	ADJ	YES
Q10	(435/253.6) and @pd > 20030915	USPT	None	ADJ	YES
Q11	(Q1 and Q10) and @pd > 20030915	USPT	None	ADJ	YES
Q12	(Q1 and Q2) and @pd > 20030915	USPT	None	ADJ	YES
Q13	(Q3 and Q12) and @pd > 20030915	USPT	None	ADJ	YES
Q14	(Q4 and Q13) and @pd > 20030915	USPT	None	ADJ	YES
Q15	(Q5 and Q14) and @pd > 20030915	USPT	None	ADJ	YES
Q16	(Q9 and Q14) and @pd > 20030915	USPT	None	ADJ	YES
Q17	(Q10 and Q14) and @pd > 20030915	USPT	None	ADJ	YES
Q18	(Q11 and Q14) and @pd > 20030915	USPT	None	ADJ	YES
Q19	(Q6 and Q7) and @pd > 20030915	USPT	None	ADJ	YES
Q20	(Q8 and Q19) and @pd > 20030915	USPT	None	ADJ	YES
Q21	(Q14 and Q20) and @pd > 20030915.	USPT	None	ADJ	YES
	(Wood near5 (soft or				

Q22	hard)) and @pd > 20030915	USPT	None	ADJ	YES
Q23	((Acid or alkaline) near5 (hydrolyzate or hydrolysate or hydrolys\$5 or hydrolyz\$5)) and @pd > 20030915	USPT	None	ADJ	YES
Q24	((furfural or ((phenol\$6 or lignin) near5 by-product))) and @pd > 20030915	USPT	None	ADJ	YES
Q25	(oxide near5 (metal or titanium or vanadium orzirionium)) and @pd > 20030915	USPT	None	ADJ	YES
Q26	(((absorb\$9 or adsorp\$8) near5 complex) near5 ((biomass or wood) near5 hydrolyz\$6 or hydrolys\$6)) and	USPT	None	ADJ	YES
Q27	@pd > 20030915 (Q22 AND Q23) and @pd > 20030915	USPT	None	ADJ	YES
Q28	(((absorb\$9 or adsorp\$8) near5 complex)) and @pd > 20030915	USPT	None	ADJ	YES
Q29	(REMOVE NEAR5 (WOOD HYDROLYSATE NEAR5 FURFURAL OR LIGNIN BY- PRODUCT)) and @pd > 20030915	USPT	None	ADJ	YES
Q30	(Q29 AND METAL OXIDE) and @pd > 20030915	USPT	None	ADJ	YES
Q31	((METAL OR TITANIUM) NEAR5 OXIDE) and @pd > 20030915	USPT	None	ADJ	YES
Q32	(((FUEL ETHANOL) OR ETHANOL OR FUEL) NEAR5 (YEAST OR sACCHAROMYCES OR CANDIDA OR	USPT	None	ADJ	YES

	PACHYSOLEN OR PICHIA)) and @pd > 20030915				:
Q33	(jEFFRIES\$.IN.) and @pd > 20030915 (((FUEL ETHANOL)	USPT	None	ADJ	YES
Q34	OR ETHANOL OR FUEL)) and @pd > 20030915	USPT	None	ADJ	YES
Q35	(5126266.pn.) and @pd > 20030915	USPT	None	ADJ	YES
Q36	(Wood near5 (soft or hard)) and @pd > 20030915	JPAB,EPAB,DWPI	None	ADJ	YES
Q37	((Acid or alkaline) near5 (hydrolyzate or hydrolysate or hydrolys\$5 or hydrolyz\$5)) and @pd > 20030915	JPAB,EPAB,DWPI	None	ADJ	YES
Q38	((furfural or ((phenol\$6 or lignin) near5 by-product))) and @pd > 20030915 (oxide near5 (metal	JPAB,EPAB,DWPI	None	ADJ	YES
Q39	or titanium or vanadium orzirionium)) and	JPAB,EPAB,DWPI	None	ADJ	YES
Q40	@pd > 20030915 ((METAL OR TITANIUM) NEAR5 OXIDE) and @pd > 20030915	JPAB,EPAB,DWPI	None	ADJ	YES
Q41	(((FUEL ETHANOL) OR ETHANOL OR FUEL) NEAR5 (YEAST OR SACCHAROMYCES OR CANDIDA OR PACHYSOLEN OR PICHIA)) and @pd > 20030915	JPAB,EPAB,DWPI	None	ADJ	YES
Q42	(((FUEL ETHANOL) OR ETHANOL OR FUEL) AND (YEAST OR SACCHAROMYCES OR CANDIDA OR PACHYSOLEN OR PICHIA)) and @pd >	JPAB,EPAB,DWPI	None	ADJ	YES

Q43	20030915 (Wood AND (soft or hard)) and @pd > 20030915 ((Acid or alkaline)	JPAB,EPAB,DWPI	None	ĄDJ	YES
Q44	AND (hydrolyzate or hydrolys\$5 or hydrolyz\$5)) and @pd > 20030915	JPAB,EPAB,DWPI	None	ADJ	YES
Q45	((furfural or ((phenol\$6 or lignin) AND by-product))) and @pd > 20030915	JPAB,EPAB,DWPI	None	ADJ	YES
Q46	((METAL OR TITANIUM) NEAR5 OXIDE) and @pd > 20030915	JPAB,EPAB,DWPI	None	ADJ	YES
Q47	((METAL OR TITANIUM) AND OXIDE) and @pd > 20030915	JPAB,EPAB,DWPI	None	ADJ	YES
Q48	(jEFFRIES\$.IN.) and @pd > 20030915	JPAB,EPAB,DWPI	None	ADJ	YES
Q49	(SREENATH AND JEFFRIES) and @pd > 20030915	JPAB,EPAB,DWPI	None	ADJ	YES
Q50	(((FUEL ETHANOL) OR ETHANOL OR FUEL)) and @pd > 20030915	JPAB,EPAB,DWPI	None	ADJ	YES

Case Operation	Run Case	Submit	Cancel
Case Coeranon		Charles and a grant contract to the contract of the contract o	

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